

INTERNATIONAL SEARCH REPORT

International Application No.
PCT/CA2004/000953

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A23L1/305 A61K31/198 A61P5/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A23L A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE WPI Section Ch, Week 199004 Derwent Publications Ltd., London, GB; Class B04, AN 1990-028215 XP002299822 & JP 01 308235 A (YAMANOUCHI PHARM CO LTD) 12 December 1989 (1989-12-12) abstract	1, 3-6, 43, 45-48
A		2, 44
X	DATABASE WPI Section Ch, Week 200271 Derwent Publications Ltd., London, GB; Class D13, AN 2001-511341 XP002299823 & KR 335 564 B (LG CHEM INVESTMENT LTD) 8 May 2002 (2002-05-08) abstract	1-6, 43-48

—/—

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another claim or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

S document member of the same patent family

Date of the actual completion of the international search

2 November 2004

Date of mailing of the international search report

27. 01. 2005

Name and mailing address of the ISA
European Patent Office, P.B. 5618 Patentstein 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3018

Authorized officer

Rinaldi, F

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/CA2004/000953

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2003/108537 A1 (POLA PIETRO) 12 June 2003 (2003-06-12) claims 7,11	1-6, 43-48
X	US 2002/002198 A1 (PARR TYLER B) 3 January 2002 (2002-01-03) paragraph '0071! - paragraph '0076!	1-6, 43-48
X	WO 02/09664 A (SAUERMANN GERHARD ; HOPPE UDO (DE); MEI WEIPING (DE); GS DEV A B (SE)) 7 February 2002 (2002-02-07) example 23	1,3-6, 43,45-48

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2004/000953

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 8.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-6 (partly), 43-48 (partly)

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-6 (partly), 43-48 (partly)

compositions for restoring growth hormone comprising (at least) carnitine or a derivative thereof and one amino acid selected from the group of lysine, glutamine, ornithine, arginine, glycine

2. claims: 1-6 (partly), 43-48 (partly)

compositions for restoring growth hormone comprising (at least) methionine or a derivative thereof and one amino acid selected from the group of lysine, glutamine, ornithine, arginine, glycine

3. claims: 1-6 (partly), 43-48 (partly)

compositions for restoring growth hormone comprising (at least) N-acetyl-cysteine or a derivative thereof and one amino acid selected from the group of lysine, glutamine, ornithine, arginine, glycine

4. claims: 7-42

compositions for restoring growth hormone comprising N-acetyl-cysteine, methionine, carnitine, lysine, glutamine, ornithine, arginine, glycine or derivatives thereof and compositions for restoring growth hormone comprising definite amounts of N-acetyl-cysteine, carnitine, lysine, glutamine, ornithine, arginine, glycine or derivatives thereof and as a non-essential and feature methionine.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/CA2004/000953

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 1308235	A	12-12-1989	NONE
KR 335564	B		NONE
US 2003108537	A1	12-06-2003	IT RM20000323 A1 14-12-2001 AT 265216 T 15-05-2004 AU 7448701 A 24-12-2001 CA 2381339 A1 20-12-2001 CN 1436166 T 13-08-2003 CZ 20020366 A3 17-07-2002 DE 60103055 D1 03-06-2004 DE 60103055 T2 14-10-2004 DK 1292312 T3 16-08-2004 EP 1292312 A1 19-03-2003 HU 0202496 A2 28-11-2002 WO 0195915 A1 20-12-2001 MX PA02001550 A 30-08-2002 NO 20020731 A 11-04-2002 PL 352578 A1 25-08-2003 PT 1292312 T 31-08-2004 SK 2102002 A3 09-05-2002 SK 17292002 A3 01-04-2003 TR 200401096 T4 21-07-2004
US 2002002198	A1	03-01-2002	NONE
WO 0209664	A	07-02-2002	DE 10036799 A1 07-02-2002 AT 281143 T 15-11-2004 DE 50104414 D1 09-12-2004 WO 0209664 A2 07-02-2002 EP 1305003 A2 02-05-2003 US 2003180278 A1 25-09-2003